



ECAT

Egg-Chick Automated Technologies

www.ecat-com.fr

AUTOMATIC LASER EGG CANDLING & CLEAR EGG REMOVAL UNIT



General characteristics:

The machine is adapted to plastic incubating trays.

The machine is designed to candle and remove the clear eggs and/or early dead embryo eggs automatically at 18 days of incubation for the chicks.

Capacity of the machine is 55-60 000 eggs per hour (nominal speed).

The machine is equipped with:

Infeed Conveyor for Setter Trays

Candling system with laser accuracy

The detection of clear eggs (non fertile eggs) takes place automatically. The number of eggs detected at one time can differ according to the set up of the eggs on the trays.

For each row of eggs, the sensor sends data to the PLC which memorises them allowing the removal of eggs automatically

Automated clear egg & dead embryo egg removal system

After the detection, the setter trays are taken beneath the removal station on the machine which only removes clear eggs and / or early dead embryos from the tray. The fertile eggs stay on the tray. The head removes the clear eggs .Then the cycle starts again for the following tray.

The egg removal head includes rubber suction cups and an electro valve per egg; each suction system is individually controlled.

The module receives the information from the PLC of the Candling Unit.

The vacuum cup head releases the clear eggs gently onto a collection conveyor placed at the end of the machine.





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Motorized rejected egg removal conveyor

The collecting belt conveyor can be connected to a waste hopper, an egg receiving table or an egg conveyor.

Outfeed of fertile Eggs

At the outfeed of the system the setter trays with fertile eggs is conveyed to an Egg Injecting Machine, Egg refilling Station or Egg Transfer.

Touch screen display allowing full control of the process with:

Data collection by tray, flock & working day with possibility to exchange via USB key or other means (optional)

A remote control of the machine can also be installed upon request of customer

Electrical Control Board



Machine adapted to 2 different kinds of trays

